

L Number	Hits	Search Text	DB	Time stamp
3	514	(bacteroides or porphyromonas)adj gingivalis	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/10/19 17:12
9	6504	serine adj (peptidase or protease or proteinase)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/10/19 17:13
15	5175463	s ((bacteroides or porphyromonas)adj gingivalis) and (serine adj (peptidase or protease or proteinase))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/10/19 17:14
21	48	((bacteroides or porphyromonas)adj gingivalis) and (serine adj (peptidase or protease or proteinase))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/10/19 17:14
27	8	((bacteroides or porphyromonas)adj gingivalis) and (serine adj (peptidase or protease or proteinase))) and amidolytic	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/10/19 17:15

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```
=> s (bacteriodes or phorphyromonas) (w) gingivalis
    43 FILES SEARCHED...
    91 FILES SEARCHED...
L1      110 (BACTERIODES OR PHORPHYROMONAS) (W) GINGIVALIS
```

```
=> (BACTERIODES OR PORPHYROMONAS) (W) GINGIVALIS
(BACTERIODES IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).
```

```
=> s (BACTERIODES OR PORPHYROMONAS) (W) GINGIVALIS
    45 FILES SEARCHED...
L2      16494 (BACTERIODES OR PORPHYROMONAS) (W) GINGIVALIS
```

```
=> s serine (w) (peptidase or protease or proteinase)
    31 FILES SEARCHED...
    61 FILES SEARCHED...
L3      127241 SERINE (W) (PEPTIDASE OR PROTEASE OR PROTEINASE)
```

```
=> s l2 and l3
    55 FILES SEARCHED...
L4      163 L2 AND L3
```

```
=> s l4 and (alanine or valine or leucine or phenylalanine or tyrosine or ala or
val or leu or ile or phe or tyr)
    16 FILES SEARCHED...
    32 FILES SEARCHED...
    49 FILES SEARCHED...
    60 FILES SEARCHED...
    83 FILES SEARCHED...
L5      69 L4 AND (ALANINE OR VALINE OR LEUCINE OR PHENYLALANINE OR TYROS
INE OR ALA OR VAL OR LEU OR ILE OR PHE OR TYR)
```

```
=> s amidolytic 4a (peptidase or protease or proteinase)
MISSING OPERATOR '4A (PEPTIDASE'
The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.
```

```
=> s amidolytic (4a) (peptidase or protease or proteinase)
    33 FILES SEARCHED...
    70 FILES SEARCHED...
L6      327 AMIDOLYTIC (4A) (PEPTIDASE OR PROTEASE OR PROTEINASE)
```

```
=> s l5 and l6
    54 FILES SEARCHED...
L7      5 L5 AND L6
```

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=> duplicate
ENTER REMOVE, IDENTIFY, ONLY, OR (?):remove
ENTER L# LIST OR (END):l7
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DRUGLAUNCH, DRUGMONOG2, DRUGUPDATES, FEDRIP, FOREGE, GENBANK, KOSMET,
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RTECS, CONF, IMSDRUGCONF, DIOGENES, INVESTEXT, USAN, FORIS, FORKAT, UFORDAT,
AQUIRE'.
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L7
L8      5 DUPLICATE REMOVE L7 (0 DUPLICATES REMOVED)
```



=> d 18 1-5 bib ab

L8 ANSWER 1 OF 5 USPATFULL  
AN 2001:131430 USPATFULL  
TI **Porphyromonas gingivalis** arginine-specific  
proteinase coding sequences  
IN Travis, James, Athens, GA, United States  
Potempa, Jan Stanislaw, Athens, GA, United States  
Barr, Philip J., Berkeley, CA, United States  
Pavloff, Nadine, Novato, CA, United States  
PA University of Georgia Research Foundation, Inc., Athens, GA, United  
States (U.S. corporation)  
PI US 6274718 B1 20010814  
AI US 2000-490931 20000125 (9)  
RLI Continuation of Ser. No. US 1994-336308, filed on 8 Nov 1994, now  
patented, Pat. No. US 6017523 Continuation-in-part of Ser. No. WO  
1994-US10283, filed on 9 Sep 1994 Continuation of Ser. No. US  
1994-265441, filed on 24 Jun 1994, now abandoned Continuation-in-part of  
Ser. No. US 1993-119361, filed on 10 Sep 1993, now patented, Pat. No. US  
5523390  
DT Utility  
FS GRANTED  
EXNAM Primary Examiner: Slobodyansky, Elizabeth  
LREP Greenlee Winner and Sullivan PC  
CLMN Number of Claims: 4  
ECL Exemplary Claim: 1  
DRWN 7 Drawing Figure(s); 5 Drawing Page(s)  
LN.CNT 2802

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Provided herein is a nucleotide sequence encoding an Arg-specific  
gingipain, said Arg-gingipain characterized as having an apparent  
molecular mass of 50 kDa as estimated by sodium dodecyl sulfate  
polyacrylamide gel electrophoresis and an apparent molecular mass of 44  
kDa as estimated by gel filtration chromatography, said gingipain-1  
having amidolytic and proteolytic activity for cleavage after arginine  
residues and having no amidolytic and/or proteolytic activity for  
cleavage after lysine residues, wherein the amidolytic and/or  
proteolytic activity is inhibited by cysteine protease group-specific  
inhibitors including iodoacetamide, iodoacetic acid, N-ethylmaleimide,  
leupeptin, antipain, trans-epoxysuccinyl-L-leucylamido-(4-  
guanidino)butane, TLCK, TPCK, p-aminobenzamidine, N-chlorosuccinamide,  
and chelating agents including EDTA and EGTA, wherein the amidolytic  
and/or proteolytic activity of said gingipain-1 is not sensitive to  
inhibition by human cystatin C, .alpha.2-macroglobulin,  
.alpha.1-proteinase inhibitor, antithrombin III, .alpha.2-antiplasmin,  
**serine protease** group-specific inhibitors including  
diisopropylfluorophosphate, phenylmethyl sulfonylfluoride and  
proteolytic activities of ginigipan-1 are stabilized by Ca.sup.2+ and  
3,4-diisochlorocoumarin, and wherein the amidolytic and/or wherein the  
amidolytic and/or proteolytic activities of said gingipain-1 are  
stimulated by glycine-containing peptides and glycine analogues, and  
methods for preparation. As specifically exemplified, high and low  
molecular weight forms of Arg-gingipains and sequences encoding them are  
prepared from **Porphyromonas gingivalis**. Said high  
molecular weight Arg-gingipain comprises a proteolytic component as  
described hereinabove and at least one hemagglutinin component.

L8 ANSWER 2 OF 5 USPATFULL  
AN 2000:134584 USPATFULL  
TI Immunogenic compositions comprising **porphyromonas**  
**gingivalis** proteins and/or peptides and methods  
IN Potempa, Jan, Athens, GA, United States  
Travis, James, Athens, GA, United States



PA Genco, Caroline Attardo, Atlanta, GA, United States  
The University of Georgia Research Foundation, Inc., Athens, GA, United States (U.S. corporation)  
Morehouse School of Medicine, Atlanta, GA, United States (U.S. corporation)

PI US 6129917 20001010  
AI US 1997-822324 19970321 (8)  
PRAI US 1996-13945P 19960322 (60)  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Minnifield, Nita  
LREP Mueting, Raasch & Gebhardt, P.A.  
CLMN Number of Claims: 7  
ECL Exemplary Claim: 1  
DRWN 10 Drawing Figure(s); 6 Drawing Page(s)  
LN.CNT 3190

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Provided herein are methods and immunogenic compositions useful for protecting mammals from infection and pathology of *P. gingivalis*. Specifically, arginine-specific proteases of **Porphyromonas gingivalis** and peptides derived therefrom offer protection against infection. Immunogenic compositions comprising a 50 kDa arginine-specific protease, the high molecular weight complex or peptides from one of the foregoing proteins are capable of protecting against *P. gingivalis* infection and/or gingivitis and/or periodontitis caused thereby in mammals, including humans.

L8 ANSWER 3 OF 5 USPATFULL

AN 2000:9523 USPATFULL

TI **Porphyromonas gingivalis** arginine-specific proteinase

IN Travis, James, Athens, GA, United States  
Potempa, Jan Stanislaw, Athens, GA, United States

PA University of Georgia Research Foundation, Inc., Athens, GA, United States (U.S. corporation)

PI US 6017532 20000125  
AI US 1994-336308 19941108 (8)

RLI Continuation-in-part of Ser. No. US 1994-265441, filed on 24 Jun 1994, now abandoned which is a continuation-in-part of Ser. No. US 1993-119361, filed on 10 Sep 1993, now patented, Pat. No. US 5523390

DT Utility

FS Granted

EXNAM Primary Examiner: Achutamurthy, Ponnathapu; Assistant Examiner: Slobodyansky, Elizabeth

LREP Greenlee, Winner and Sullivan, PC

CLMN Number of Claims: 4

ECL Exemplary Claim: 1

DRWN 7 Drawing Figure(s); 5 Drawing Page(s)

LN.CNT 4435

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Provided herein is a **Porphyromonas gingivalis** high molecular weight arginine-specific proteinase comprising a protease component of 50 kD and a hemagglutinin component of about 44 kD as estimated by SDS-PAGE. The proteinase is stimulated by glycine containing peptides and glycine analogues. It is inhibited by cysteine protease group specific inhibitors.

L8 ANSWER 4 OF 5 USPATFULL

AN 1999:141571 USPATFULL

TI Method for detecting **Porphyromonas gingivalis**

IN Wikstrom, Maude Birgitta, Trolldansen 8, Molndal, Sweden S-431 69

PI US 5981164 19991109

AI US 1995-371479 19950111 (8)

RLI Continuation of Ser. No. US 1993-41295, filed on 29 Mar 1993, now

abandoned which is a continuation of Ser. No. US 1990-597817, filed on 15 Oct 1990, now abandoned

DT Utility  
FS Granted  
EXNAM Primary Examiner: Sisson, Bradley L.  
LREP Fulbright & Jaworski L.L.P.  
CLMN Number of Claims: 32  
ECL Exemplary Claim: 1  
DRWN 9 Drawing Figure(s); 6 Drawing Page(s)  
LN.CNT 677

AB A rapid and simple method and kit for the analysis of **Porphyromonas gingivalis** in a sample. A sample suspected of containing *P. gingivalis* is assayed for enhanced proteolytic, amidolytic, or esterolytic activity in the presence of a specific enhancer compound. Specifically, the enhancer is a mono- or di-peptide containing glycine, or an amide or ester thereof.

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AN 96:48476 USPATFULL

TI **Porphyromonas gingivalis** arginine-specific proteinase

IN Travis, James, Athens,, GA, United States  
Potempa, Jan S., Athens,, GA, United States  
Barr, Philip J., Berkeley, CA, United States  
Pavloff, Nadine, Novato, CA, United States

PA University of Georgia Research Foundation, Inc., Athens, GA, United States (U.S. corporation)

PI US 5523390 19960604

AI US 1993-119361 19930910 (8)

DT Utility

FS Granted

EXNAM Primary Examiner: Wax, Robert A.; Assistant Examiner: Kim, Hyosuk

LREP Greenlee and Winner

CLMN Number of Claims: 2

ECL Exemplary Claim: 1

DRWN 8 Drawing Figure(s); 6 Drawing Page(s)

LN.CNT 2091

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Provide herein is a substantially pure gingipain-1 preparation, gingipain-1 being characterized as having an apparent molecular mass of 50 kDa as estimated by sodium dodecyl sulfate polyacrylamide gel electrophoresis and an apparent molecular mass of 44 kDa as estimated by gel filtration chromatography, said gingipain-1 having amidolytic and proteolytic activity for cleavage after arginine residues and having no amidolytic and/or proteolytic activity for cleavage after lysine residues, wherein the amidolytic and/or proteolytic activity is inhibited by cysteine protease group-specific inhibitors including iodoacetamide, iodoacetic acid, N-ethylmaleimide, leupeptin, antipain, trans-epoxysuccinyl-L-leucylamido-(4-guanidino)butane, TLCK, TPCK, p-aminobenzamidine, N-chlorosuccinamide, and chelating agents including EDTA and EGTA, wherein the amidolytic and/or proteolytic activity of said gingipain-1 is not sensitive to inhibition by human cystatin C, .alpha.2-macroglobulin, .alpha.1-proteinase inhibitor, antithrombin III, .alpha.2-antiplasmin, **serine protease** group-specific inhibitors including diisopropylfluorophosphate, phenylmethyl sulfonylfluoride and 3,4-diisochlorocoumarin, and wherein the amidolytic and/or proteolytic activities of gingipain-1 are stabilized by Ca.sup.2+ and wherein the amidolytic and/or proteolytic activities of said gingipain-1 are stimulated by glycine-containing peptides and glycine analogues, and methods for preparation. As specifically exemplified, Arg-gingipain-1 and Arg-gingipain-2 are purified from **Porphyromonas gingivalis**, and the mature Arg-gingipain-2 has an amino acid sequence as given in SEQ ID NO:5 from amino acid 1 through amino acid 510. Also provided are nucleic acid

sequences encoding Arg-gingipain-2. The nucleotide coding sequence of the mature Arg-gingipain-2 is given in SEQ ID NO:4, from nucleotide 1630 through nucleotide 3105.

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